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Number of Patents: 8 **Number of Countries:** 6 **Number of Legal Status Entries:** 19
Patent Basic (No,Kind,Date): FI 199602381 D0 19960607

Datan pakkaaminen tietoliikenneyhteydella (Finnish)
Kompressering av data pa en kommunikationsflrbindelse (Swedish)

Patent Assignee: NOKIA TELECOMMUNICATIONS OY (FI)
Author (Inventor): KARI HANNU (FI)
Record Type: Legal Status; Abstract; Cited Refs

Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Update	
AU 199729656	A	19980107	AU 199729656	D	19970603	199817	
EP 898825	A1	19990303	EP 1997924060	A	19970603	199908	
FI 199602381	D0	19960607	FI 19962381	A	19960607	199639	(B)
FI 199602381	A	19971208	FI 19962381	A	19960607	199815	
JP 2000513519	T	20001010	JP 1998501239	T	19970603	200049	
JP 3902235	B2	20070404	JP 1998501239	T	19970603	200720	
US 6434168	B1	20020813	US 1998202203	A	19981207	200233	
WO 1997048212	A1	19971218	WO 1997FI345	A	19970603	199801	

Priority Data

Application Number	Kind	Date
FI19962381	A	19960607
WO1997FI345	A	19970603

AUSTRALIA (AU)

Australia (AU) Patent(s):
Patent (Number,Kind,Date): AU 199729656 A 19980107
Data compression on a data connection (English)
Patent Assignee: NOKIA TELECOMMUNICATIONS OY
Author (Inventor): KARI HANNU H
Priority (Number,Kind,Date): FI 19962381 A 19960607; WO 1997FI345 A 19970603 *
Applic (Number,Kind,Date): AU 199729656 D 19970603
ECLA: H03M-007/30; H04L-012/56B; H04L-029/06; H04L-029/06C5; H04Q-007/22S3; H04W-028/06; T04L-029:06P; T04Q-007:22S3P
IPC + Level Value Position Status Version Action Source Office

v. 6 main: H04L-012/56
v. 6 : H04Q-007/30
v. 6 : H04Q-007/32
v. 8 adv : H03M-0007/30 A I R 20060101 20051008 M EP
v. 8 adv : H04L-0012/56 A I R 20060101 20051008 M EP
v. 8 adv : H04L-0029/06 A I R 20060101 20051008 M EP
v. 8 adv : H04W-0028/06 A I R 20090101 20090105 M EP
v. 8 core: H03M-0007/30 C I R 20060101 20051008 M EP
v. 8 core: H04L-0012/56 C I R 20060101 20051008 M EP
v. 8 core: H04L-0029/06 C I R 20060101 20051008 M EP
v. 8 core: H04W-0028/02 C I R 20090101 20090105 M EP
Date of Availability: 19980107 Claims only available
Language of Document: English
Update Week: 200905 (First Week Added: 199817)

EUROPEAN PATENT OFFICE (EP)

European Patent Office (EP) Patent(s):

Patent (Number,Kind,Date): EP 898825 A1 19990303
DATA COMPRESSION ON A DATA CONNECTION (English) COMPRESSION DE DONNEES LORS D'UNE CONNEXION DE DONNEES (French) DATENKOMPRESSION AUF EINER DATUMVERBINDUNG (German)
Patent Assignee: NOKIA TELECOMMUNICATIONS OY (FI)
Author (Inventor): KARI HANNU H (FI)
Priority (Number,Kind,Date): FI 19962381 A 19960607; WO 1997FI345 A 19970603 *
Applic (Number,Kind,Date): EP 1997924060 A 19970603
Designated States: C: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
ECLA: H03M-007/30; H04L-012/56B; H04L-029/06; H04L-029/06C5; H04Q-007/22S3; H04W-028/06; T04L-029:06P; T04Q-007:22S3P
IPC + Level Value Position Status Version Action Source Office
v. 6 main: H04L-012/56
v. 6 : H04Q-007/30
v. 6 : H04Q-007/32
v. 8 adv : H03M-0007/30 A I R 20060101 20051008 M EP
v. 8 adv : H04L-0012/56 A I R 20060101 20051008 M EP
v. 8 adv : H04L-0029/06 A I R 20060101 20051008 M EP
v. 8 adv : H04W-0028/06 A I R 20090101 20090105 M EP
v. 8 core: H03M-0007/30 C I R 20060101 20051008 M EP
v. 8 core: H04L-0012/56 C I R 20060101 20051008 M EP
v. 8 core: H04L-0029/06 C I R 20060101 20051008 M EP
v. 8 core: H04W-0028/02 C I R 20090101 20090105 M EP
Date of Availability: 19990303 Examined printed without grant
Language of Document: English; French; German
Update Week: 200905 (First Week Added: 199908)

European Patent Office (EP) Legal Status

Number	Type	Date	Code	Text
EP 898825	A1	19990303	EP AK (+)	DESIGNATED CONTRACTING STATES: (BENANNTE VERTRAGSSTAATEN) Designated States: AT BE CH DE DK ES FI FR GB GR IE IT

		LI LU MC NL PT SE Last Revised by EPO: 20030101 Update Week: Backfile
EP 898825 A1	19990303 EP 17P (+)	REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT) Effective Date: 19981127 Last Revised by EPO: 20030101 Update Week: Backfile
EP 898825 A1	20000105 EP RAP1	TRANSFER OF RIGHTS OF AN EP APPLICATION (ANMELDER UEBERTRAGUNG (KORR.)) Assignee(s): NOKIA NETWORKS OY Last Revised by EPO: 20030101 Update Week: Backfile
EP 898825 A1	20020313 EP RAP1	TRANSFER OF RIGHTS OF AN EP APPLICATION (ANMELDER UEBERTRAGUNG (KORR.)) Assignee(s): NOKIA CORPORATION Last Revised by EPO: 20030101 Update Week: Backfile
EP 898825 A1	20070103 EP 17Q (+)	FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHEID) Effective Date: 20061127 Update Week: 200701
EP 898825 A1	20080220 EP RAP1	TRANSFER OF RIGHTS OF AN EP APPLICATION (ANMELDER UEBERTRAGUNG (KORR.)) Assignee(s): NOKIA SIEMENS NETWORKS OY Update Week: 200808
EP 898825 A1	20091125 EP 18D (-)	DEEMED TO BE WITHDRAWN (ALS ZURUECKGENOMMEN GELTEN) Effective Date: 20000604 Update Week: 200948
EP 898825 A1	20091202 EP R18D (-)	EP-APPLICATION DEEMED TO BE WITHDRAWN: (CORRECTION) (ALS ZURUECKGENOMMEN GELTEN (KORR.)) Effective Date: 20090604 Update Week: 200949

European Patent Office (EP) Cited Reference(s):
EP 898825 A1 19990303 REFERENCES:
SEA See references of WO 9748212A1

FINLAND (FI)

Finland (FI) Patent(s):
Patent (Number,Kind,Date): FI 199602381 D0 19960607
Datan pakkaaminen tietoliikenneyhteydella (Finnish) Kompressering av data pa en kommunikationsflrbindelse (Swedish)
Patent Assignee: NOKIA TELECOMMUNICATIONS OY (FI)
Author (Inventor): KARI HANNU (FI)
Priority (Number,Kind,Date): FI 19962381 A 19960607

Applic (Number,Kind,Date): FI 19962381 A 19960607
ECLA: H03M-007/30; H04L-012/56B; H04L-029/06; H04L-029/06C5; H04Q-007/22S3; H04W-028/06; T04L-029:06P; T04Q-007:22S3P
IPC + Level Value Position Status Version Action Source Office
v. 6 main: H04L
v. 8 adv : H03M-0007/30 A I R 20060101 20051008 M EP
v. 8 adv : H04L-0012/56 A I R 20060101 20051008 M EP
v. 8 adv : H04L-0029/06 A I R 20060101 20051008 M EP
v. 8 adv : H04W-0028/06 A I R 20090101 20090105 M EP
v. 8 core: H03M-0007/30 C I R 20060101 20051008 M EP
v. 8 core: H04L-0012/56 C I R 20060101 20051008 M EP
v. 8 core: H04L-0029/06 C I R 20060101 20051008 M EP
v. 8 core: H04W-0028/02 C I R 20090101 20090105 M EP
Language of Document: Finnish; Swedish
Update Week: 200905 (First Week Added: 199639)

Patent (Number,Kind,Date): FI 199602381 A 19971208
Datan pakkaaminen tietoliikenneyhteydella (Finnish) Kompressering av data pa en kommunikationsforbindelse (Swedish)
Patent Assignee: NOKIA TELECOMMUNICATIONS OY (FI)
Author (Inventor): KARI HANNU (FI)
Priority (Number,Kind,Date): FI 19962381 A 19960607
Applic (Number,Kind,Date): FI 19962381 A 19960607
ECLA: H03M-007/30; H04L-012/56B; H04L-029/06; H04L-029/06C5; H04Q-007/22S3; H04W-028/06; T04L-029:06P; T04Q-007:22S3P
IPC + Level Value Position Status Version Action Source Office
v. 6 main: H04L-025/49
v. 8 adv : H03M-0007/30 A I R 20060101 20051008 M EP
v. 8 adv : H04L-0012/56 A I R 20060101 20051008 M EP
v. 8 adv : H04L-0029/06 A I R 20060101 20051008 M EP
v. 8 adv : H04W-0028/06 A I R 20090101 20090105 M EP
v. 8 core: H03M-0007/30 C I R 20060101 20051008 M EP
v. 8 core: H04L-0012/56 C I R 20060101 20051008 M EP
v. 8 core: H04L-0029/06 C I R 20060101 20051008 M EP
v. 8 core: H04W-0028/02 C I R 20090101 20090105 M EP
Date of Availability: 19971208 Unexamined not printed without grant
Language of Document: Finnish; Swedish
Update Week: 200905 (First Week Added: 199815)

JAPAN (JP)

Japan (JP) Patent(s):

Patent (Number,Kind,Date): JP 2000513519 T 20001010
(No title available)
Priority (Number,Kind,Date): FI 19962381 A 19960607; WO 1997FI345 A 19970603 *
Applic (Number,Kind,Date): JP 1998501239 T 19970603
ECLA: H03M-007/30; H04L-012/56B; H04L-029/06; H04L-029/06C5; H04Q-007/22S3; H04W-028/06; T04L-029:06P; T04Q-007:22S3P
IPC + Level Value Position Status Version Action Source Office
v. 7 main: H03M-007/30
v. 7 : H04L-012/56

v. 7 : H04Q-007/38
v. 8 adv : H03M-0007/30 A I R 20060101 20051008 M EP
v. 8 adv : H04L-0012/56 A I R 20060101 20051008 M EP
v. 8 adv : H04L-0029/06 A I R 20060101 20051008 M EP
v. 8 adv : H04W-0028/06 A I R 20090101 20090105 M EP
v. 8 core: H03M-0007/30 C I R 20060101 20051008 M EP
v. 8 core: H04L-0012/56 C I R 20060101 20051008 M EP
v. 8 core: H04L-0029/06 C I R 20060101 20051008 M EP
v. 8 core: H04W-0028/02 C I R 20090101 20090105 M EP
Date of Availability: 20001010 Unexamined printed without grant
Language of Document: Japanese
Update Week: 200905 (First Week Added: 200049)

Patent (Number,Kind,Date): JP 3902235 B2 20070404
(No title available)
Priority (Number,Kind,Date): FI 19962381 A 19960607; WO 1997FI345 A 19970603 *
Applic (Number,Kind,Date): JP 1998501239 T 19970603
ECLA: H03M-007/30; H04L-012/56B; H04L-029/06; H04L-029/06C5; H04Q-007/22S3; H04W-028/06; T04L-029:06P; T04Q-007:22S3P
IPC + Level Value Position Status Version Action Source Office
Orig adv : H03M-0007/30 A I F B 20060101 20070315 H JP
Orig adv : H04B-0007/26 A I L B 20060101 20070315 H JP
Orig adv : H04L-0012/56 A I L B 20060101 20070315 H JP
v. 8 adv : H04L-0029/06 A I R 20060101 20051008 M EP
v. 8 adv : H04W-0028/06 A I R 20090101 20090105 M EP
Orig core: H03M-0007/30 C I F B 20060101 20070315 H JP
Orig core: H04B-0007/26 C I L B 20060101 20070315 H JP
Orig core: H04L-0012/56 C I L B 20060101 20070315 H JP
v. 8 core: H04L-0029/06 C I R 20060101 20051008 M EP
v. 8 core: H04W-0028/02 C I R 20090101 20090105 M EP
Date of Availability: 20070404 Printed with grant
Language of Document: Japanese
Update Week: 200905 (First Week Added: 200720)

UNITED STATES (US)

United States (US) Patent(s):

Patent (Number,Kind,Date): US 6434168 B1 20020813
Data compression on a data connection (English)
Patent Assignee: NOKIA TELECOMMUNICATIONS OY (FI)
Author (Inventor): KARI HANNU (FI)
Priority (Number,Kind,Date): FI 19962381 A 19960607; WO 1997FI345 A 19970603 *
Applic (Number,Kind,Date): US 1998202203 A 19981207
National Class: 370521; X348568
ECLA: H03M-007/30; H04L-012/56B; H04L-029/06; H04L-029/06C5; H04Q-007/22S3; H04W-028/06; T04L-029:06P; T04Q-007:22S3P
IPC + Level Value Position Status Version Action Source Office
v. 7 main: H04J-003/00
v. 8 adv : H03M-0007/30 A I R 20060101 20051008 M EP
v. 8 adv : H04L-0012/56 A I R 20060101 20051008 M EP
v. 8 adv : H04L-0029/06 A I R 20060101 20051008 M EP

v. 8 adv : H04W-0028/06 A I R 20090101 20090105 M EP
v. 8 core: H03M-0007/30 C I R 20060101 20051008 M EP
v. 8 core: H04L-0012/56 C I R 20060101 20051008 M EP
v. 8 core: H04L-0029/06 C I R 20060101 20051008 M EP
v. 8 core: H04W-0028/02 C I R 20090101 20090105 M EP
Date of Availability: 20020813 Printed with grant
Language of Document: English
Update Week: 200905 (First Week Added: 200233)

United States (US) Abstract(s):

US 6434168 B1 20020813 (English)

The invention relates to compressing and transmitting data on a connection between two parties in a telecommunication system comprising at least one slow transmission channel, such as the air interface Um of the radio network. The data to be transmitted are assembled into frames (F) comprising a header section (1) and a data section (2). Prior to transmission, at least the header (1) or the data section (2) of at least some of the frames (F) are compressed. The transmitting party has available at least two different compression algorithms and the receiving party has available at least two different decompression algorithms. The transmitting party compresses at least one section (1, 2) of at least some of the frames (F) with at least two different algorithms, and transmits the frame (F) compressed with the algorithm that produced the best compression ratio.

United States (US) Legal Status

Number	Type	Date	Code	Text
US 6434168 B1		19981207	US AS	ASSIGNMENT Assignee(s): NOKIA TELECOMMUNICATIONS OY, FINLAND Effective Date: 19981111 Notes: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:KARI, HANNU;REEL/FRAME:010009/0445 Update Week: 200920
US 6434168 B1		20080423	US AS	ASSIGNMENT Assignee(s): NOKIA SIEMENS NETWORKS OY, FINLAND Effective Date: 20070913 Notes: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:NOKIA CORPORATION;REEL/FRAME:020837/0726 Update Week: 200906

United States (US) Cited Reference(s):

US 6434168 B1 20020813 CITED PATENTS:
SEA US 5867114 A 19990202
SEA US 5884269 A 19990316
SEA US 5933104 A 19990803
SEA US 5956504 A 19990921
SEA US 5974179 A 19991026
SEA US 5974471 A 19991026
SEA US 6002719 A 19991214
SEA US 6151627 A 20001121
SEA US 6175386 B1 20010116
APP US 5396228 A 19950307

APP US 5452287 A 19950919
APP EP 595406 A1 19940504
APP WO 1994014273 A1 19940623
APP WO 1995002873 A1 19950126
US 6434168 B1 20020813 REFERENCES:
APP V. Jacobson, Compressing TCP/IP Headers for Low-Speed Serial Links (Request for Comments: 1144) (Feb. 1990); pp 1-25.

WORLD INTELLECTUAL PROPERTY ORGANIZATION PCT (WO)

World Intellectual Property Organization PCT (WO) Patent(s):
Patent (Number,Kind,Date): WO 1997048212 A1 19971218
DATA COMPRESSION ON A DATA CONNECTION (English) COMPRESSION DE DONNEES LORS D'UNE CONNEXION DE DONNEES (French)
Patent Assignee: NOKIA TELECOMMUNICATIONS OY (FI); KARI HANNU H (FI)
Author (Inventor): KARI HANNU H (FI)
Priority (Number,Kind,Date): FI 19962381 A 19960607
Applic (Number,Kind,Date): WO 1997FI345 A 19970603
Designated States: AP: GH KE LS MW SD SZ UG EP: AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE NA: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN YU AM AZ BY KG KZ MD RU TJ TM OA: BF
Filing Details: Filing Language: English; Extended Kind(s): 130000
ECLA: H03M-007/30; H04L-012/56B; H04L-029/06; H04L-029/06C5; H04Q-007/22S3; H04W-028/06; T04L-029:06P; T04Q-007:22S3P
IPC + Level Value Position Status Version Action Source Office
v. 6 main: H04L-012/56
v. 6 : H04Q-007/30
v. 6 : H04Q-007/32
v. 8 adv : H03M-0007/30 A I R 20060101 20051008 M EP
v. 8 adv : H04L-0012/56 A I R 20060101 20051008 M EP
v. 8 adv : H04L-0029/06 A I R 20060101 20051008 M EP
v. 8 adv : H04W-0028/06 A I R 20090101 20090105 M EP
v. 8 core: H03M-0007/30 C I R 20060101 20051008 M EP
v. 8 core: H04L-0012/56 C I R 20060101 20051008 M EP
v. 8 core: H04L-0029/06 C I R 20060101 20051008 M EP
v. 8 core: H04W-0028/02 C I R 20090101 20090105 M EP
Date of Availability: 19971218 Examined printed without grant
Language of Document: English; French; German
Update Week: 200905 (First Week Added: 199801)

World Intellectual Property Organization PCT (WO) Abstract(s):
WO 1997048212 A1 19971218 (English)
The invention relates to compressing and transmitting data on a connection between two parties in a telecommunication system comprising at least one slow transmission channel, such as the air interface Um of the radio network. The data to be transmitted are assembled into frames (F) comprising a header section (1) and a data section (2). Prior to transmission, at least the header (1) or the data section (2) of at least some of the frames (F) are compressed. The transmitting party has available at least two different compression algorithms and the receiving party has available at least two different decompression algorithms. The transmitting party compresses at least one section (1, 2) of at least some of the frames

(F) with at least two different algorithms, and transmits the frame (F) compressed with the algorithm that produced the best compression ratio.

WO 1997048212 A1 19971218 (French)
Cette invention concerne un procede de compression et de transmission de donnees lors d'une connexion reliant deux parties dans un systeme de telecommunications. Ce procede fait appel a au moins un canal de transmission lente tel que l'interface aerienne Um d'un reseau radio. Les donnees a transmettre sont assemblees en trames (F) qui comprennent une section en-tete (1) et une section donnees (2). Avant d'effectuer la transmission, on procede a la compression de la section en-tete (1) et/ou de la section donnees (2) d'au moins quelques trames (F). La partie qui transmet dispose d'au moins deux algorithmes de compression differents, tandis que la partie qui recoit dispose d'au moins deux algorithmes de decompression differents. La partie qui emet va comprimer au moins une section (1, 2) d'au moins quelques trames (F) a l'aide de deux algorithmes differents, ou plus, puis transmettre la trame (F) comprimee a l'aide de l'algorithme qui a permis d'obtenir le meilleur taux de compression.

World Intellectual Property Organization PCT (WO) Legal Status

Number	Type	Date	Code	Text
WO 1997048212	A1	19971218	WO AK (+)	DESIGNATED STATES Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN YU AM AZ BY KG KZ MD RU TJ TM Last Revised by EPO: 20030101 Update Week: Backfile
WO 1997048212	A1	19971218	WO AL (+)	DESIGNATED COUNTRIES FOR REGIONAL PATENTS Designated States: GH KE LS MW SD SZ UG AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF Last Revised by EPO: 20030101 Update Week: Backfile
WO 1997048212	A1	19980219	WO DFPE	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED BEFORE 20040101) Last Revised by EPO: 20030101 Update Week: Backfile
WO 1997048212	A1	19980401	WO 121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION Last Revised by EPO: 20030101 Update Week: Backfile
WO 1997048212	A1	19981127	WO WWE (+)	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE Reference: EP 1997924060 -NoDate- Update Week: 200822
WO 1997048212	A1	19981207	WO	WIPO INFORMATION: ENTRY INTO NATIONAL

		WWE (+)	PHASE Reference: US 09202203 -NoDate- Update Week: 200745
WO 1997048212 A1	19990303	WO WWP (+)	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE Reference: EP 1997924060 -NoDate- Update Week: 200822
WO 1997048212 A1	19990408	WO REG/DE 8642	REFERENCE TO NATIONAL CODE Last Revised by EPO: 20030101 Update Week: Backfile
WO 1997048212 A1	19991207	WO NENP	NON-ENTRY INTO THE NATIONAL PHASE IN: Ref Country: CA Last Revised by EPO: 20030101 Update Week: Backfile

World Intellectual Property Organization PCT (WO) Cited Reference(s):

WO 1997048212 A1 19971218 CITED PATENTS:
SEA X WO 1994014273 A1 19940623
SEA Y US 5452287 A 19950919
SEA A US 5396228 A 19950307
SEA A EP 595406 A1 19940504
SEA A WO 1995002873 A1 19950126

INPADOC/Family and Legal Status

Dialog® File Number 345 Accession Number 32313701
INPADOC Family ID: 2313702